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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/769,452	01/26/2001	Jussi Petri Myllymaki	ARC9-2000-0103-US1	5448

29154 7590 10/10/2006

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EXAMINER

PEREZ, ANGELICA

ART UNIT	PAPER NUMBER
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2618

DATE MAILED: 10/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.	Applicant(s)	
09/769,452	MYLLYMAKI, JUSSI PETRI	
Examiner	Art Unit	
Perez M. Angelica	2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 November 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Emery (Emery et al., US Patent No.: 5,727,057) in view of Glorikian (Glorikian, Harry A.; US 00 Patent No.: 6,343,317 B1) and further in view of Mohi (Mohi et al.; US 2003/0,195,008 A1).

Regarding claims 1 and 10, Emery teaches of a satellite and method of sorting geo-spatial dependent data using client wireless component (CWC) (columns 1 and 8, lines 24-27 and 40-45 respectively; where finding the locations of all establishments offering a specific type of business within an X meter radius requires sorting of the location data), the method comprising at least: determining location of the CWC (Figure 1, items 105.1 and 107; where the GPS satellite determines the position of the mobile device, CWC); accessing a document database whose datum have location identifiers (column 8, lines 40-42; e.g., "location identifier"); and

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Emery does not specifically teach where sorting, within the CWC, the document database in a shortest-distance-first order based on the location of the CWC; and displaying the geo-spatial dependent data in the shortest-distance-first order based on the location of the CWC.

In related art concerning an internet system for connecting client-travelers with geographically associated data, Glorikian teaches of sorting, within the CWC, the document database in a shortest-distance-first order based on the location of the CWC. (columns 5 and 6, lines 37-67 and 1-29, respectively; where information is "pushed" in a shortest-distance-first order basis as shown in the example. Also, in an alternative embodiment Gorkian teaches, columns 9 and 10, lines 59-67 and 1-8, where "portions of the database may be downloaded by a user/client, based on current or expected location, and stored locally accessible to the client's portable unit" and "the client, having the relevant information stored locally... may then operate in the specific area, accessing the locally-stored information by real-time GPS position, just as in the internet connected situation described". Where, as in the example found on page 6, lines 1-14; the information is provided in a "shortest-distance-first order"); and displaying the geo-spatial dependent data in the shortest-distance-first order based on the location of the CWC (columns 4, 5 and 6 lines 30-39, 26-42 and 1-28, respectively; where the information provided to the user is displayed in the display and it is displayed in a "shortest-distance-first order" in relation to the position of the user).

It would have been obvious to a one of ordinary skill in the art at the time the invention was made to combine Emery's method of sorting and displaying geo-spatial

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dependent data using client wireless component with Glorikian's shortest-distance-first order executed within the CWC in order to provide the CWC user with an alternative embodiment that provides the most proximate information regarding locations associated with his/her location, as taught by Glorikian.

Although Emery and Glorikian implicitly teach of sorting and presenting location information in a shortest-first basis. They do not specifically explicitly show of sorting and presenting location information in a shortest-first basis.

Mohi further shows where the geo-spatial dependent data is presented in a shortest-distance first bases on the CWC (paragraph 140; where in order for the database to locate the data in a shortest-distance-first order, it is necessary for the database to sort the data).

It would have been obvious to one of ordinary skill in the art to combine Emery and Glorikian method of providing geo-spatial data with Mohi's in order to provide a more explicit example of the database arranging of the data.

Regarding claims 2 and 11. Emery, Glorikian and Mohi teaches all the limitations according to claims 1 and 10. Emery further teaches of the usage of a global position satellite (GPS)-type wireless component (CWC)(Figure 1, items 105.1, 107, and 108).

Regarding claim 3, Emery, Glorikian and Mohi teaches all the limitations according to claims 1. In addition, Emery teaches where determining of the location of the CWC includes accessing an area code of the local wireless cellular network (column 16, lines 2-8).

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Regarding claims 4 and 12, Emery, Glorikian and Mohi teach all the limitations of claims 1 and 10. Emery further teaches where the determining of the location of the CWC includes explicit entry of location data (column 11, lines 40-42).

Regarding claims 5 and 13, Emery, Glorikian and Mohi teach all the limitations of claims 1 and 10. Emery further teaches of storing the location into the CWC by inputting the location in a location-tracking database that stores both the location and timestamp (column 7, lines 19-24).

Regarding claims 6 and 14, Emery, Glorikian and Mohi teach all the limitations of claims 1 and 10. Emery also teaches of editing the location identifiers to correspond to actual geo-spatial locations (columns 12 and 13, lines 62-67 and 1-8 respectively).

Regarding claims 7 and 15, Emery, Glorikian and Mohi teach all the limitations of claims 1 and 10. Emery further teaches assigning the location identifier based on information other than geo-spatial location (column 3, lines 59-65).

Regarding claims 8 and 16, Emery, Glorikian and Mohi teach all the limitations of claims 1 and 10. Glorikian further teaches where sorting comprises calculating a distance between the location and the location identifiers and ordering the datum by the distance, beginning with a smallest distance (column 6, lines 1-14; where the smallest distance is pushed to the top).

Regarding claim 9, Emery, Glorikian and Mohi teach all the limitations of claim 1. Emery further teaches where sorting of the document databases in a location-dependent order by calculating the distance between current location and the location

identifiers associated with the datum in the document database is by logical dimension (column 6, lines 42-45).

Regarding claim 17, Emery, Glorikian and Mohi teach all the limitations of claim 10. Emery further teaches where sorting of the document databases in a location-dependent order by calculating the distance between current location and the location identifiers associated with the datum in the document database is by logical dimension based upon user preference (column 12, lines 49-55).

Regarding claim 18, Emery teaches of a method of sorting location dependent data (column 10, lines 34-63), the system comprising: a client wireless component (CWC) (figure 1, item 105), the CWC having: a location tracker operatively configured with a location tracking database (column 15, lines 5-8); a document database operatively configured with an editor (column 15, line 40-41) a presenter (column 11, lines 32-39) operatively configured with the location tracking database; and a recorder (column 13, lines 54-56); and a session manager (column 11, lines 48-57; shows an example of a session performed by a session manager).

Emery does not specifically teach of a session manager within the CWC, where location dependent data used by the CWC is stored by the session manager in a shortest-distance first order; and displaying the geo-spatial dependent data in the shortest-distance-first order based on the location of the CWC.

In related art, concerning an internet system for connecting client-travelers with geographically-associated data, Glorikian teaches of the session manager within the CWC (column 10, lines 3-8; where the management is done by the client's portable unit,

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therefore, done by an internal session manager), where location dependent data used by the CWC is stored by the session manager in a shortest-distance first order (columns 5 and 6, lines 37-67 and 1-29, respectively; where information is "pushed" in a shortest-distance-first order basis as shown in the example. Also, in an alternative embodiment Gorkian teaches, columns 9 and 10, lines 59-67 and 1-8, where "portions of the database may be downloaded by a user/client, based on current or expected location, and stored locally accessible to the client's portable unit" and "the client, having the relevant information stored locally... may then operate in the specific area, accessing the locally-stored information by real-time GPS position, just as in the internet connected situation described". Where as in the example found on page 6, lines 1-14; the information is provided in a "shortest-distance-first order"; however, it is not being "pushed", but it is directly provided by the client's device stored information. Column 10, lines 3-8; where the management of sorting, displaying, starting ending the sessions is done by the client's portable unit, therefore, done by an internal session manager) and displaying the geo-spatial dependent data in the shortest-distance-first order based on the location of the CWC (columns 4, 5 and 6 lines 30-39, 26-42 and 1-28, respectively; where the information provided to the user is displayed in the display and it is displayed in a "shortest-distance-first order" in relation to the position of the user).

It would have been obvious to a one of ordinary skill in the art at the time the invention was made to combine Emery's method of sorting and displaying geo-spatial dependent data using client wireless component with Glorikian's session manager shortest-distance-first order executed within the CWC in order to provide the CWC user

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with an alternative embodiment that provides the most proximate information regarding locations associated with his/her location, as taught by Glorikian.

Although Emery and Glorikian implicitly teach of sorting and presenting location information in a shortest-first basis. Emery and Glorikian do not teach explicitly of sorting and presenting location information in a shortest-first basis.

Mohi further shows where the geo-spatial dependent data is presented in a shortest-distance first bases on the CWC (paragraph 140; where in order for the database to locate the data in a shortest-distance-first order, it is necessary for the database to sort the data).

It would have been obvious to one of ordinary skill in the art to combine Emery and Glorikian method of providing geo-spatial data with Mohi's in order to provide a more explicit example of the database arranging of the data.

Regarding claim 19, Emery, Glorikian and Mohi teach all the limitations of claim 18. Emery also teaches where the editor and the recorder comprise editing components that modify the location-tracking database (column 14, lines 1-20).

Regarding claim 20, Emery, Glorikian and Mohi teach all the limitations of claim 18. Emery further teaches where the presenter retrieves documents from the document database, and sorts them in location-dependent order for presentation by calculating the distance between current location from the location tracking database and location information associated with each document in the document database (column 15, lines 5-8).

Regarding claim 21, Emery, Glorikian and Mohi teach all the limitations of claim 18. Emery further teaches where the CWC further includes global positioning satellite (GSP) position components and distance determination for sorting the document database is determined by a signal from a GSP network (Figure 1, item 107).

Regarding claim 22, Emery, Glorikian and Mohi teach all the limitations of claim 20. Emery also teaches where the CWC includes position-determining components for sorting the document database, the determining components determine location of the CWC by accessing area code of the wireless cellular network (column 16, lines 4-8).

Regarding claim 23, Emery teaches of a program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform the method for sorting location dependent data (column 3, lines 35-36) to perform a method of sorting geo-spatial dependent data using client wireless component (CWC) (columns 1 and 8, lines 24-27 and 40-45 respectively; where finding the locations of all establishments offering a specific type of business within an X meter radius requires sorting of the location data), the method comprising at least: determining location of the CWC (Figure 1, items 105.1 and 107; where the GPS satellite determines the position of the mobile device, CWC); accessing a document database whose datum have location identifiers (column 8, lines 40-42; e.g., "location identifier"); and

Emery does not specifically teach where sorting, within the CWC, the document database in a shortest-distance-first order based on the location of the CWC; and

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displaying the geo-spatial dependent data in the shortest-distance-first order based on the location of the CWC.

In related art concerning an internet system for connecting client-travelers with geographically associated data, Glorikian teaches of sorting, within the CWC, the document database in a shortest-distance-first order based on the location of the CWC. (columns 5 and 6, lines 37-67 and 1-29, respectively; where information is "pushed" in a shortest-distance-first order basis as shown in the example. Also, in an alternative embodiment Gorkian teaches, columns 9 and 10, lines 59-67 and 1-8, where "portions of the database may be downloaded by a user/client, based on current or expected location, and stored locally accessible to the client's portable unit" and "the client, having the relevant information stored locally... may then operate in the specific area, accessing the locally-stored information by real-time GPS position, just as in the internet connected situation described". Where as in the example found on page 6, lines 1-14; the information is provided in a "shortest-distance-first order"; however, it is not being "pushed", but it is directly provided by the client's device stored information); and displaying the geo-spatial dependent data in the shortest-distance-first order based on the location of the CWC (columns 4, 5 and 6 lines 30-39, 26-42 and 1-28, respectively; where the information provided to the user is displayed in the display and it is displayed in a "shortest-distance-first order" in relation to the position of the user).

It would have been obvious to a one of ordinary skill in the art at the time the invention was made to combine Emery's method of sorting and displaying geo-spatial dependent data using client wireless component with Glorikian's shortest-distance-first

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order executed within the CWC in order to provide the CWC user with an alternative embodiment that provides the most proximate information regarding locations associated with his/her location, as taught by Glorikian.

Although Emery and Glorikian implicitly teach of sorting and presenting location information in a shortest-first basis. Emery and Glorikian do not teach explicitly of sorting and presenting location information in a shortest-first basis.

Mohi further shows where the geo-spatial dependent data is presented in a shortest-distance first bases on the CWC (paragraph 140; where in order for the database to locate the data in a shortest-distance-first order, it is necessary for the database to sort the data).

It would have been obvious to one of ordinary skill in the art to combine Emery and Glorikian method of providing geo-spatial data with Mohi's in order to provide a more explicit example of the database arranging of the data.

Regarding claim 24, Emery, Glorikian and Mohi teach all the limitations of claim 23. Emery further teaches the editing of the document database further includes capability of editing the location identifier associated with the datum determined by the actual geo-spatial location (columns 12 and 13, lines 62-67 and 1-8 respectively).

Regarding claim 25, Emery, Glorikian and Mohi teach all the limitations of claim 23. Emery further teaches the editing of the document database further includes capability of editing the location identifier associated with the datum determined by the non-actual geo-spatial location (column 3, lines 59-65).

Response to Argument

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3. Applicant's arguments with respect to claims 1-25 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

US Pub. No.: US 2004/0,110,515 A1, refers to a system and method for providing information based on geographic position.

US Patent No.: 6,625,457 B1, refers to a mobile terminal with location database.

US Pub. No.: 2002/0,086,663 A1, refers to a system, device and method for providing services in a proximity-based environment.

US Patent No.: 6,680,675 B1, refers to an interactive to-do-list item notification system that includes GPS interface.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angelica Perez whose telephone number is 571-272-7885. The examiner can normally be reached on 6:00 a.m. - 1:30 p.m., Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 703-308-7745. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and for After Final communications.


Information regarding Patent Application Information Retrieval (PAIR) system can be found at 866-217-9197 (toll-free).

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2600's customer service number is 703-306-0377.



Angelica Perez
(Examiner)



10-02-06

LANA LE
PRIMARY EXAMINER

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September 29, 2006